In The Claims

Please amend the claims as follows:

Claims:

- 1. (Currently Amended) A process for the preparation of an olefin homopolymer or copolymer comprising polymerising at least one $C_{2-20}-\alpha$ -olefin in slurry phase in the presence of:
- (a1) a metallocene compound of formula I:

$$(Cp) (Cp") RnMX2$$
 (I)

wherein:

Cp is an optionally substituted and/or optionally fused homo- or heterocyclopentadienyl ligand;

Cp" is a cyclopentadienyl substituted by at least one C_{1-20} -alkyl group;

R is a bridge of 1-7 bridging atoms;

M is a group 4 to 6 transition metal;

each X is $-CH_2-Y$, wherein Y is at least one selected from the group consisting of: C_{6-20} -aryl, C_{6-20} -heteroaryl, C_{1-20} -alkoxy, C_{6-20} -aryloxy, $-NR'_2$, -SR', $-PR'_3$, $-SiR'_3$, $-OSiR'_3$ and $-OSIR'_3$

R' is C_{1-20} -hydrocarbyl or in case of -NR'2, the two substituents R' can form a ring together with the nitrogen atom wherein they are attached to;

and each non-cyclopentadienyl ring moiety can further be substituted;

n is 0 or 1; and

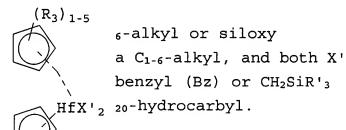
(bII) an aluminoxane.

- 2. (Original) A process as claimed in claim 1 wherein n is 0.
- 3. (Currently Amended) A process as claimed in claim 1—or $2_{\underline{\prime}}$ wherein Cp is optionally substituted by at least one substituent selected from the group consisting of: halogen, C_{1-20} -alkyl, $-C_{2-20}$ -alkenyl, C_{2-20} -alkynyl, C_{3-12} -cycloalkyl, C_{6-20} -aryl or C_{7-20} -arylalkyl, C_{3-12} -heterocycloalkyl which contains 1, 2, 3 or 4 heteroatom(s) in the ring moiety, C_{5-20} -heteroaryl, C_{1-20} -haloalkyl, $-SiR"_3$, $-OSiR"_3$, -SR", $-PR"_2$ and $-NR"_2$.
- 4. (Currently Amended) A process as claimed in any one of claims 1—to 3, wherein Cp denotes optionally substituted by at least one substituent selected from the group consisting of: cyclopentadienyl, indenyl, tetrahydroindenyl, benzindenyl orand fluorenyl.
- 5. (Original) A process as claimed in claim 4 wherein Cp denotes optionally substituted cyclopentadienyl.
- 6. (Currently Amended) A process as claimed in claim 61 wherein the Cp and Cp" groups are identical.
- 7. (Currently Amended) A process as claimed in any one of claims 2-to-7, wherein the Cp and Cp" groups carry 1 to 5 C_{1-6} -alkyl substituents.

- 8. (Currently Amended) A process as claimed in claim 1 to 7 wherein M is Hf.
- 9. (Currently Amended) A process as claimed in any one of claims 1-to-8 wherein -CH₂-Y is benzyl or -CH₂-SiR'₃.
- 10. (Original) A process as claimed in claims 1 wherein said metallocene is of formula (II)

(II)

wherein R_3 is a C_1 substituent, R_4 is
groups are either
wherein R' is C_1 -



11. (Currently Amended) A process as claimed in any one of claims 1 to 10 wherein said slurry phase is carried out in a loop reactor.

- 12. (Currently Amended) A process as claimed in $\frac{\text{any one of}}{\text{claims 1}}$ to $\frac{1}{\text{to 11}}$ wherein said slurry phase polymerisation is one stage of a multistage polymerisation.
- 13. (Original) A process as claimed in claim 12 wherein subsequent to said slurry phase polymerisation there is a gas phase polymerisation.
- 14. (Original) A process as claimed in claim 13 wherein the weight ratio of produced polymer in the slurry phase:

gas phase is 60:40 to 40:60.

- 15. (Currently Amended) A process as claimed in claim 13 or 14, wherein said polymerisation comprises consists of two stages, a slurry phase and a gas phase stage.
- 16. (Original) A process as claimed in claim 13 wherein said gas phase polymerization is itself followed by a further gas phase polymerisation stage.
- 17. (Currently Amended) A process as claimed in any one of claims 1—to—16 wherein the metallocene is prepolymerised.
- 18. (Currently Amended) A process as claimed in any one of claims 1 to 17, wherein said olefin homopolymer or copolymer is an ethylene homopolymer or ethylene copolymer with a C_{3-6} -comonomer.
- 19. (Currently Amended) A process as claimed in any one of claims 1—to—18, wherein said metallocene is supported on a carrier.
- 20. (Currently Amended) A Mmetallocene compounds of formula (III)

wherein each Cp' denotes a mono or di C_{1-6} -alkyl-substituted cyclopentadienyl, X^1 is benzyl or $CH_2SiR'_3$ in which R' is C_{1-20} -hydrocarbyl.

- 21. (Currently Amended) \underline{AThe} metallocene compound as claimed in claim 20 wherein R' is methyl.
- 22. (Currently Amended) The Amended metallocene compounds selected from the group consisting of:

bis(n-butylcyclopentadienyl)Hf dibenzyl,
bis(methylcyclopentadienyl)Hf dibenzyl,
bis(1,2-dimethylcyclopentadienyl)Hf dibenzyl,
bis(n-butylindenyl) Hf dibenzyl,
bis(methylindenyl) Hf dibenzyl,
bis(dimethylindenyl) Hf dibenzyl,
bis(n-propylcyclopentadienyl)Hf dibenzyl,
bis(i-propylcyclopentadienyl)Hf dibenzyl,
bis(n-butylcyclopentadienyl)Hf (CH2SiMe3)2,
bis(n-propylcyclopentadienyl) Hf (CH2SiMe3)2,
bis(i-propylcyclopentadienyl) Hf (CH2SiMe3)2,
bis(i-propylcyclopentadienyl) Hf (CH2SiMe3)2, and mixtures
thereof-

23. (Currently Amended) An olefin produced by a process as elaimed in any one of claims 1 to 19 for the preparation of an olefin homopolymer or copolymer comprising polymerising at least one $C_{2-20}-\alpha$ -olefin in slurry phase in the presence of:

| (a) a metallocene compound of formula I: |
|---|
| $(Cp) (Cp") R_n MX_2 $ (I) |
| wherein: |
| Cp is an optionally substituted and/or optionally fused homo- or heterocyclopentadienyl ligand; |
| Cp" is a cyclopentadienyl substituted by at least one |
| C ₁₋₂₀ -alkyl group; |
| R is a bridge of 1-7 bridging atoms; |
| M is a group 4 to 6 transition metal; |
| each X is -CH ₂ -Y, wherein Y is at least one selected |
| from the group consisting of: C_{6-20} -aryl, C_{6-20} -heteroaryl, C_{1-20} -alkoxy, C_{6-20} -aryloxy, $-NR'_2$, $-SR'$, $-PR'_3$, $-SiR'_3$, $-$ |
| OSiR' ₃ and halogen; |
| R' is C_{1-20} -hydrocarbyl or in case of -NR' ₂ , the two |
| substituents R' can form a ring together with the nitrogen atom wherein they are attached to; |
| and each non-cyclopentadienyl ring moiety can further |
| be substituted; |
| n is 0 or 1; and |

(b) an aluminoxane.